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Title: RH-72B Packaging Plan Slides for University of Washington

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RH-72B Packaging Plan Slides for University of Washington

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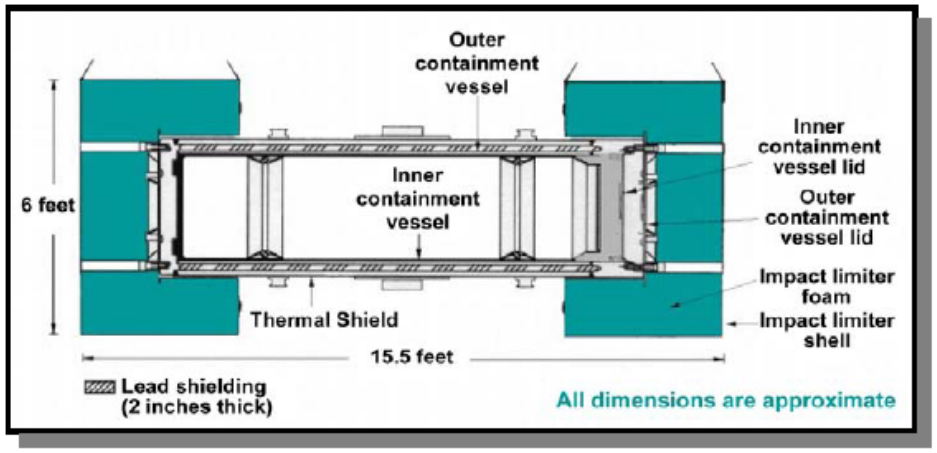
Shipping Package RH-72B

Why the RH-72B container…

- Sources contain large amounts of radiation must be shipped in specialized containers that are designed to contain these materials.
- The RH-72B is a US NRC Compliant Type B Shipping Container designed for these type of radioactive materials in higher activities.
- Has been used for over 900 shipments from National Laboratories to disposal locations.



RH-72B

RH-72B Features

- Cask is a cylinder, dimensions are 12ft Long x 3.5 ft in diameter
- The cylinder fits into two circular impact limiters to protect the cask in the event of an accident.
- Lead shielding for gamma radiation.
- External thermal shield protects the cask from potential fire damage.
- The cask is leak tight.
- All these feature are to ensure that in the event of an accident, radiation and radioactive material will remain contained within the cask.

RH 72B Packaging Configuration

For the shipment from University of Washington

1. Breached source will remain in the Transfer Shield that is was placed into the night of the incident.

2. The Transfer shield will be placed into a “cribbing” currently being designed specifically for the transfer shield that will add additional shielding as well as ensure the transfer shield remains stationary during transport.

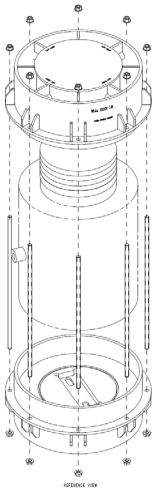
3. Employing a Mobile Loading Unit (MLU), the “cribbing” will be place into a Removable Top Container (RLC), an inner container designed for use within the RH-72B.

4. The MLU will then load the RLC into the RH-72B and the RH-72B will be secured to the shipping Trailer.

5. The loaded RH-72B will be shipped to its final destination at Pacific Northwest National Laboratory (PNNL)

1.

2.



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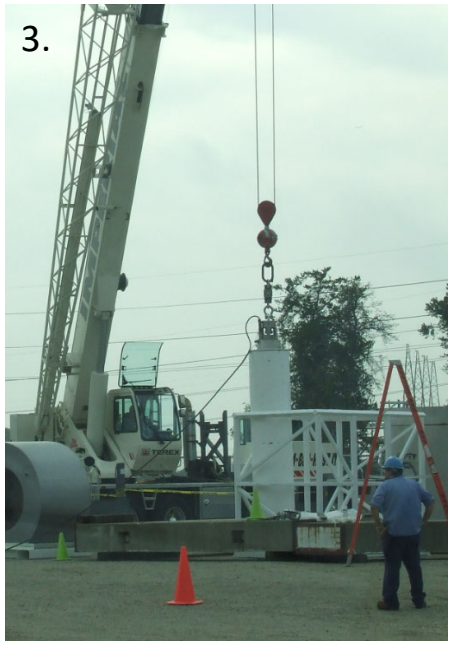

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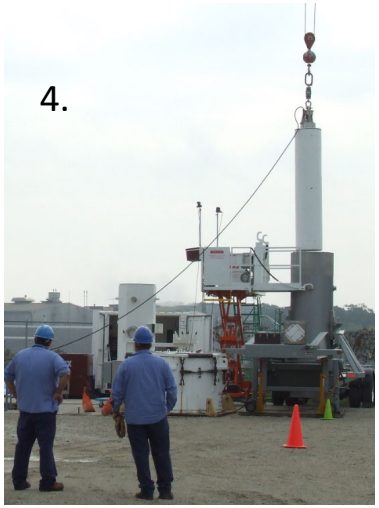
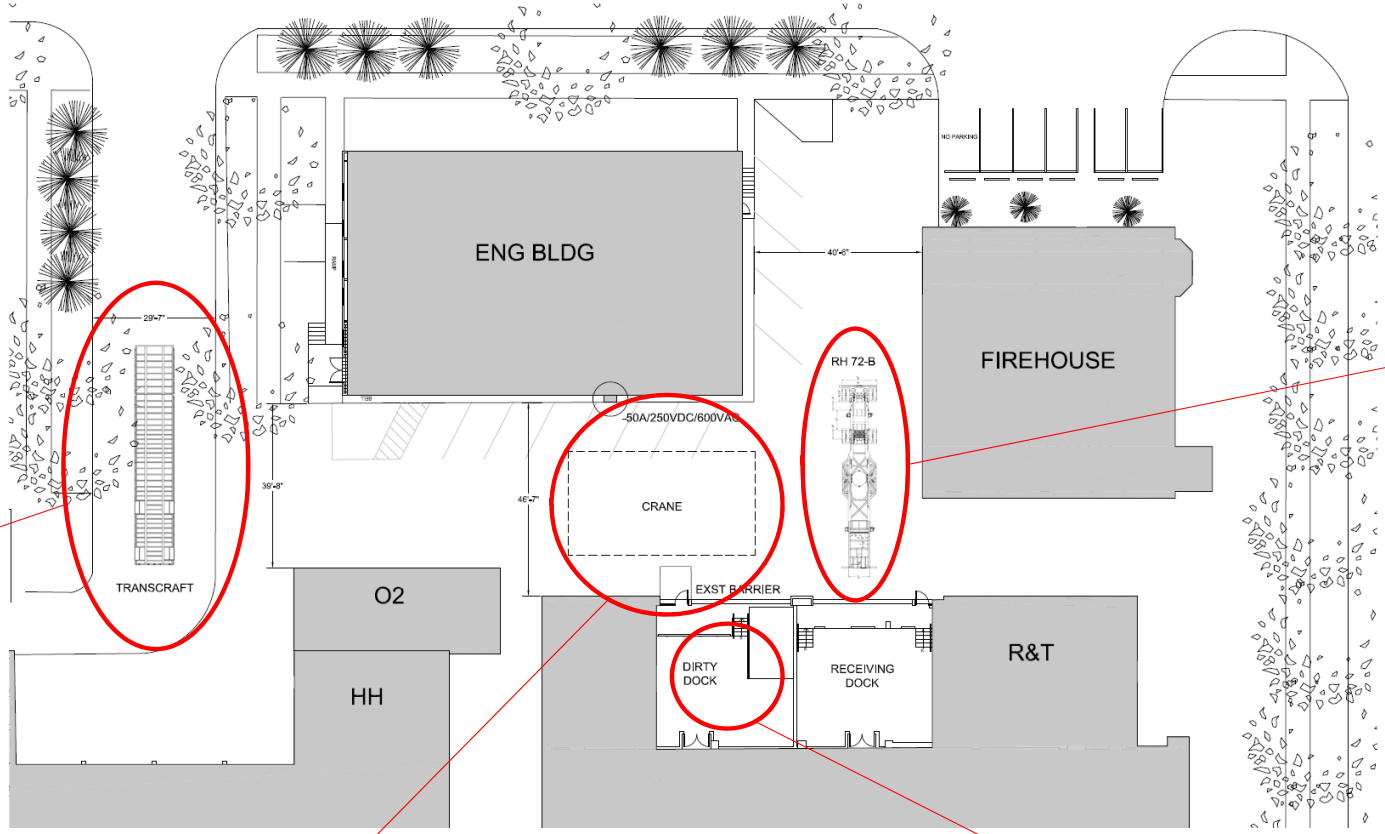


5.

Placement of 72B for Loading



Mobile Loading Unit Equipment Trailer Parking

Location of MLU for loading of the RLC and RH-72B

Location of Crane to be used to load the RLC and RH-72B

Current location of the Transfer Shield